

FT	protein	29..-666	PF	22-DEC-1997; AU0874
FT			PR	20-DEC-1996; AU-004275.
PN	WO9827805-A1.		PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PD	02-JUL-1998.		PI	Bower NI, Goultier KC, Green JL, Manners JM, Marcus JP;
PF	22-DEC-1997; AU0874		DR	WPI; 98-37277/32.
PR	20-DEC-1996; AU-004275.		PT	Novel anti-microbial protein from e.g. Macadamia integrifolia -
PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.		PT	useful for controlling microbial infestations of plants or mammals
PI	Bower NI, Goultier KC, Green JL, Manners JM, Marcus JP;		PS	Claim 1; Page 47-49; 96pp; English.
DR	WPI; 98-37279/32.		CC	The sequence is that of an antimicrobial protein which can
DR	V42310.		CC	be used to control microbial infestations in plants and mammalian
PT	Novel anti-microbial protein from e.g. Macadamia integrifolia -		CC	animals.
PT	useful for controlling microbial infestations of plants or mammals		CC	Sequence 666 AA;
PS	Best Local Similarity 95.3%; Pred. No. 8.81e-24;		SQ	Sequence 525 AA;
CC	41; Conservative 2; Mismatches 0;		Query Match	46.2%; Score 159; DB 1; Length 525;
CC	be used to control microbial infestations in plants and mammalian		Best Local Similarity 47.5%; Pred. No. 1.70e-06;	Matches 19; Conservative 10; Mismatches 11; Indels 0; Gaps 0;
Db	74 NQEDQTECOCQCRQRCRQQESGPRQQYCQRCRKEICEBEEY 116		Db	78 EEEELQRQYQOCQGQOCQGQOCQGQOCQGQOCQRCRKEICEBEEY 117
Qy	74 NQDDPDTDCOCQCRQRCRQQESGPRQQYCQRCRKEICEBEEY 116		Qy	75 QDDPDTDCOCQCRQRCRQQESGPRQQYCQRCRKEICEBEEY 114
RESULT	3		RESULT	5
ID	W62830 standard; Protein; 625 AA.		ID	R20181 standard; Protein; 566 AA.
AC	W62830;		AC	R20181;
DT	27-OCT-1998 (first entry)		DT	16-APR-1992 (first entry)
DE	Macadamia integrifolia antimicrobial protein.		DE	Sequence encoded by 67 kD T. cacao protein cDNA.
KW	Antimicrobial Protein; infestation; control.		KW	Cocoa; flavour; vicilin; seed storage protein.
OS	Macadamia integrifolia.		OS	Theobroma cacao.
KEY	Location/Qualifiers		W09119801-A.	
FT	Peptide	1..28	PN	W09119801-A.
FT		/note= "signal peptide"	DT	26-DEC-1991.
FT	Protein	29..-666	PF	07-JUN-1991; G00914.
FT		/note= "mature protein"	PR	11-JUN-1990; GB-013016.
PN	WO9827805-A1.		PA	(MRSC) MARS UK LTD.
PD	02-JUL-1998		PI	Spencer ME, Hodge R, Deakin EA, Ashton S;
PR	22-DEC-1997; AU0874		DR	WPI; 98-024418/03.
PT	20-DEC-1996; AU-004275.		PT	N-REDB; 022037.
FT	Protein		PT	Recombinant cocoa proteins - are responsible for flavour in cocoa
FT			PT	beans and produced in large quantities using yeast and bacterial
FT	WO9827805-A1.		PT	expression vectors.
PR			PS	Claim 4; Fig 2; 5pp; English.
PN			CC	The inventors claim a 67 kD and 31 kD T. cacao protein, and
PD	02-JUL-1998		CC	fragments, and encoding DNAs. The 47 kD and 31 kD proteins are
PR			CC	derived from the 67 kD precursor. T. cacao protein cDNA was
PT			CC	detected in a cDNA library prepared from immature cocoa beans RNA
PS			CC	using a probe based on the AA sequence of a CNBr peptide common to
PI			CC	the 47 kD and 31 kD polypeptides. Homology searches revealed close
DR			CC	homologies between the 67 kD polypeptide and the vicilins, which are
DR			CC	seed storage proteins.
PT			SQ	Sequence 566 AA;
PT			Query Match	46.2%; Score 159; DB 1; Length 566;
PS	Claim 1; Page 43-45; 96pp; English.		Best Local Similarity 47.5%; Pred. No. 1.70e-06;	Matches 19; Conservative 10; Mismatches 11; Indels 0; Gaps 0;
CC	The sequence is that of an antimicrobial protein which can			
CC	be used to control microbial infestations in plants and mammalian			
CC	animals.			
SQ	Sequence 625 AA;			
RESULT	4		Db	78 EEEELQRQYQOCQGRCQEQQQGQREQQGQRCRKEICEBEEY 117
ID	W62831 standard; Protein; 525 AA.		Qy	75 QDDPDTDCOCQCRQRCRQQESGPRQQYCQRCRKEICEBEEY 114
AC	W62831;		RESULT	6
DT	27-OCT-1998 (first entry)		ID	W62832 standard; Protein; 590 AA.
DE	Theobroma cacao antimicrobial protein.		AC	W62832;
KW	antimicrobial protein; infestation; control.		DT	27-OCT-1998 (first entry)
OS	Theobroma cacao.		DE	Gossypium hirsutum antimicrobial protein.
PN	WO9827805-A1.		KW	Antimicrobial protein; infestation; control.
PD	02-JUL-1998.		OS	Gossypium hirsutum.
PR	22-DEC-1997; AU0874		PN	W09827805-A1.
PR	20-DEC-1996; AU-004275		PT	02-JUL-1998.
PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.		PR	20-DEC-1996; AU-004275
PI	Bower NI, Goultier KC, Green JL, Manners JM, Marcus JP;		PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
DR	V42310.		PI	Bower NI, Goultier KC, Green JL, Manners JM, Marcus JP;
DR	02-JUL-1998.			

RESULT 11
 ID W62837 standard; Protein; 637 AA.
 AC W62837;
 DT 27-OCT-1998 (first entry)
 DE Hordeum vulgare antimicrobial protein.
 KW antimicrobial protein; infestation; control.
 OS Hordeum vulgare.
 PN WO927805A1.
 PD 02-JUL-1998.
 PR 22-DEC-1997; AU00874.
 PR (RETR) COOP RES CENI TROPICAL PLANT PATHOLOGY.
 PA Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI: 98-317279/32.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 useful for controlling microbial infestations of Plants or mammals -
 Claim 1; Page 60-62; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 be used to control microbial infestations in plants and mammalian
 animals.
 Sequence 637 AA;

Query Match 24.7%; Score 85; DB 1; Length 637;
 Best Local Similarity 42.4%; Pred. No. 4.72e+00;
 Matches 14; Conservatve 7; Mismatches 7; Indels 5; Gaps 3;

Db 42 QQCVRQRQ-ER-PR--YSHARCVQECRDQQ 69
 Qy 83 QQCQRKRCRQQESGPROQQYCQRRCKEICEEEEEE 115

RESULT 12
 ID R91706 standard; Protein; 106 AA.
 AC R91706;
 DT 17-NOV-1996 (first entry)
 DE AcanNAP24.
 KW AcanNAP; NamNAP; AceNAP; AdmNAP; anticoagulant;
 PR nematode-extracted anticoagulant protein; serine protease;
 KW nematode; thrombosis; parasitic worm.
 OS Ancylostoma caninum.
 PN WO9612021A2.
 PD 25-APR-1995.
 PR 17-OCT-1995; U13231.
 PR 18-OCT-1994; US-326110.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-486380.
 PR 05-JUN-1995; US-486395.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-465380.
 PA (CORY-) CORVAS INT INC.
 PT Bergum PW, Ganssmans YGJ, Jaspers LS, Laroche YR;
 PT Lauwersys MJ, Messensjhl, Moyle M, Stanssens PEH;
 PT Vlasuk GP;
 DR WPI: 96-222007/22.
 DR N-PSDB; TI2951.
 PT Proteins with anticoagulant and/or serine protease inhibitory
 PT activity - isolated from nematodes and useful to inhibit blood
 PT coagulation.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-486380.
 PR 05-JUN-1995; US-486395.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-465380.
 PT Bergum PW, Ganssmans YGJ, Jaspers LS, Laroche YR;
 PT Lauwersys MJ, Messensjhl, Moyle M, Stanssens PEH;
 PT Vlasuk GP;
 DR WPI: 96-222007/22.
 DR N-PSDB; TI2952.
 PT Proteins with anticoagulant and/or serine protease inhibitory
 PT activity - isolated from nematodes and useful to inhibit blood
 PT coagulation.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-486380.
 PR 05-JUN-1995; US-486395.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-465380.
 PT Bergum PW, Ganssmans YGJ, Jaspers LS, Laroche YR;
 PT Lauwersys MJ, Messensjhl, Moyle M, Stanssens PEH;
 PT Vlasuk GP;
 DR WPI: 96-222007/22.

Query Match 24.7%; Score 85; DB 1; Length 637;
 Best Local Similarity 56.3%; Pred. No. 6.86e+00;
 Matches 9; Conservatve 4; Mismatches 2; Indels 1; Gaps 1;

Db 39 CERKOKIETSEEDDY 54
 Qy 102 CQRCK-EICEEEEEE 116

RESULT 13
 ID R91705 standard; Protein; 107 AA.
 AC R91705;
 DT 17-NOV-1996 (first entry)
 DE AcanNAP23.
 KW AcanNAP; RhoNAP; NamNAP; AceNAP; AquNAP; anticoagulant;
 PR nematode-extracted anticoagulant protein; serine protease;
 KW nematode; thrombosis; parasitic worm.
 OS Ancylostoma caninum.
 PN WO9612021A2.
 PD 25-APR-1996.
 PR 17-OCT-1995; U13231.
 PR 18-OCT-1994; US-326110.
 PR 05-JUN-1995; US-486399.
 PR 05-JUN-1995; US-465380.
 PR 05-JUN-1995; US-486395.
 PR 05-JUN-1995; US-486397.
 PR 05-JUN-1995; US-465380.
 PA (CORY-) CORVAS INT INC.
 PT Bergum PW, Ganssmans YGJ, Jaspers LS, Laroche YR;
 PT Lauwersys MJ, Messensjhl, Moyle M, Stanssens PEH;
 PT Vlasuk GP;
 DR WPI: 96-222007/22.

Query Match 24.1%; Score 83; DB 1; Length 107;

CC at 10-100 nMol.
 CC The anticoagulant proteins are pref. derived from
 CC Ancylostoma caninum, A. ceylanicum, A. duodenale, Necator
 CC americanus or Heligmosomoides polygyrus.
 CC The proteins pref. have 2 NAP domains and specifically inhibit
 CC the catalytic activity of the factor VIIa/TF complex in the
 CC presence of factor Xa or a catalytically inactive factor Xa deriv.,
 CC do not specifically inhibit the activation of factor VIIa in the
 CC absence of TF and do not specifically inhibit prothrombinase.
 CC Sequence 106 AA;

Query Match 24.1%; Score 83; DB 1; Length 106;
 Best Local Similarity 56.3%; Pred. No. 6.86e+00;
 Matches 9; Conservatve 4; Mismatches 2; Indels 1; Gaps 1;

Db 39 CERKOKIETSEEDDY 54
 Qy 102 CQRCK-EICEEEEEE 116

Query Match 24.1%; Score 83; DB 1; Length 106;
 Best Local Similarity 56.3%; Pred. No. 6.86e+00;
 Matches 9; Conservatve 4; Mismatches 2; Indels 1; Gaps 1;

Db 39 CERKOKIETSEEDDY 54
 Qy 102 CQRCK-EICEEEEEE 116

Query Match 24.1%; Score 83; DB 1; Length 106;
 Best Local Similarity 56.3%; Pred. No. 6.86e+00;
 Matches 9; Conservatve 4; Mismatches 2; Indels 1; Gaps 1;

Db 39 CERKOKIETSEEDDY 54
 Qy 102 CQRCK-EICEEEEEE 116

Query Match 24.1%; Score 83; DB 1; Length 107;

PI	Mukherjee, R.
WPI	96-08756-09.
DR	
PT	Screening methods for identifying NUC protein inhibitors - for use as potential agents for the treatment of hyperlipidemia, hypercholesterolemia and hyperlipoproteinemia.
PT	Claim 44; page 29-31; 45pp; English.
PS	
CC	A novel human Peroxisome proliferator activated receptor (PPAR), designated hNUNC1B (R89214), is expressed from a cDNA clone (T1083) isolated from a human kidney cDNA library. hNUNC1B is a member of the PPAR family and can be used to screen NUC protein inhibitors.
CC	
CC	
SQ	Sequence 441 AA;
Query Match	23.0%; Score 79; DB 1; Length 441;
Best Local Similarity	29.6%; Pred. No. 1.44e-01;
Matches	8; Conservative 7; Mismatches 11; Indels 1; Gaps 1;
Db	107 EYEKCCKERSCKIOKRNKCOYCRFOKC 133
Qy	81 DCQDQRRCRQEQSGPRQQYQ-C-R-C 106
Search completed: Sat May 13 10:05:02 2000	
Job time : 8 secs.	
RESULT	15
ID	R89214 standard; Protein; 441 AA.
AC	R89214.
DT	03-APR-1996 (first entry)
DE	peroxisome proliferator activated receptor hNUNC1B.
KW	hNUNC1B; peroxisome proliferator activated receptor; hyperlipidemia; hypercholesterolemia; hyperlipoproteinemia.
OS	Homo sapiens.
OS	W09601430-A2.
PD	18-JAN-1996.
PP	29-JUN-1995; US08328.
PP	01-JUL-1994; US-270635.
PA	(LIGA-) LIGAND PHARM INC.
RESULT	14
ID	W22150 standard; Protein; 626 AA.
AC	W22150.
DT	29-DEC-1997 (first entry)
DE	peanut allergen Ara h1.
KW	peanut; seed storage protein; allergen; allergy; hypersensitivity; monoclonal antibody; ELISA; analysis; Ara h1.
OS	Arachis hypogaea strain Florunner.
KEY	Location/Qualifiers
FT	1..22 /label=Sig_peptide
FT	23..626 /label=Mat_protein
FT	521..523 /note= "N-glycosylation site"
PN	W097241139-A1.
PD	10-JUL-1997.
PP	23-SEP-1996; US15222.
PR	04-MAR-1995; US-610424.
PR	29-DEC-1995; US-009455.
PA	(UYAR-) UNIV ARKANS.
PI	Bannon GA, Buijs AW, Cockrell G, Helm RM, Stanley JS;
DR	WPI; 97-362453/33.
PT	Peanut allergens Ara h1 and Ara h1I - used for vaccination and in two-site monoclonal antibody based ELISA
PS	Claim 31; Page 172; 354PP; English.
CC	This polypeptide comprises major peanut allergen Ara h1 (W22149). Its sequence was deduced from cDNA clone P41b (T76616) isolated from peanut seed cDNA using a primer (see T76616) based on an isolated Ara h1 peptide (see W2426). The sequence shows significant homology with the vicilin family of seed storage proteins of other legumes. The allergen is recognised by serum IgE from a large proportion of individuals with peanut hypersensitivity. Ara h1 and Ara h1I (see W24164) can be used to raise monoclonal antibodies which are used in a specific two-site Mab ELISA for the detection of Ara h1 or Ara h1I (claimed). IgE-binding Ara h1 antigen epitopes (see W24165-87) may be used in vaccines to protect against allergic reactions to peanut allergens, e.g. anaphylactic shock.
SQ	Sequence 626 AA;
Query Match	23.8%; Score 82; DB 1; Length 626;
Best Local Similarity	33.3%; Pred. No. 8.27e+00;
Matches	12; Conservative 6; Mismatches 16; Indels 2; Gaps 2;
Db	31 QKKTEMPQAPQCLQSC-QQEDDLKQKACESRCKTL 65
Qy	75 QDDPQDC-QQCQRCRQEQSGPROQYQ-C-R-C 109

